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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/845,896	04/30/2001	Steven Towle	884.409US1	4065	
75	90 10/11/2002				
Schwegman, Lundberg, Woessner & Kluth, P.A.			EXAMINER		
P.O. Box 2938 Minneapolis, M	N 55402		PAREKH, NITIN		
			ART UNIT	PAPER NUMBER	
			2811	<u></u>	
			DATE MAIL ED: 10/11/2002)	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	cant(s)	<u> </u>
,	09/845,896	TOWLE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Nitin Parekh	2811	
The MAILING DATE of this communication a	ppears on the cover sheet w	vith the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stated to reply received by the Office later than three months after the maximum days and patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a eply within the statutory minimum of the dwill apply and will expire SIX (6) MC ute, cause the application to become a	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication NBANDONED (35 U.S.C. § 133).	1.
1) Responsive to communication(s) filed on 3	0 April 2001	•	
	This action is non-final.		
3) Since this application is in condition for allo		atters prosecution as to the merits i	ie
closed in accordance with the practice und			,
Disposition of Claims			
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application			
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
 8) Claim(s) <u>1-30</u> are subject to restriction and/o Application Papers 	or election requirement.		
9) The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to by	the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).	
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□	disapproved by the Examiner.	
If approved, corrected drawings are required in	reply to this Office action.		
12) The oath or declaration is objected to by the	Examiner.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a) All b) Some * c) None of:			
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in	Application No	
3. Copies of the certified copies of the properties application from the International	Bureau (PCT Rule 17.2(a))		
* See the attached detailed Office action for a li	*		
14) Acknowledgment is made of a claim for dome			on).
 a) ☐ The translation of the foreign language 15) ☐ Acknowledgment is made of a claim for dome 	· · ·		
Attachment(s)	one priority diluter of 0.0.0.	33 120 GHG/01 121.	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)	
S. Patent and Trademark Office	Action Summary		

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-18 and 24-30, drawn to a semiconductor device, classified in class 257, subclass 737.
 - II. Claims 19-23, drawn to a method of making a semiconductor device, classified in class 438, subclass 613.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of Group I invention would not necessarily imply unpatentability of the process of the group II invention, since the device of group I invention could be made by the processes different from those of group II invention. For example, by using a pin-throughhole connection method for coupling the interposer and die/core assembly instead of laminating the metallized patterns.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.



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- 3. The device claims 1-18 and 24-30 are further directed to the following patentably distinct species of the claimed invention:
- A. Embodiment I: Fig. 1-6
- B. Embodiment II: Fig. 7
- C. Embodiment III: Fig. 8
- D. Embodiment IV: Fig. 9

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are



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added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 703-305-3410. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

Nitin Parekh

NP 10-08-02

Steven Lohe